Blended Learning Grant for CNC MES 8304 Machining Technology Subjects in Mechanical Engineering Education Study Program

by Bernardus Sentot Wijanarka

ABSTRACT

The specific objectives of this grant are (1) developing online learning tools at besmart.uny.ac.id; (2) testing the application of online learning; and (3) documenting and evaluating the implementation of blended learning in the CNC Machining Technology course.

The development is carried out by filling out content in the CNC machining technology course at besmart.uny.ac.id for 16 meetings. Each meeting contained: introduction, pdf material, presentation material, video media, formative questions, and assignment questions. In the middle of the semester, a UTS question is made and at the end of the semester, a UAS question is made.

The results of the grants for the development and implementation of blended learning are: (1) The development of e-learning learning facilities takes quite a long time because for the implementation of e-learning courses, 16 times must be developed face to face with 2 exams. Each meeting consisted of: introductory, pdf teaching materials, presentations, videos, formative questions, and assignment questions and (2) The implementation of e-learning in the delivery of pdf material, presentations, and videos were not followed by students if the schedule was not arranged. Formative questions are carried out by all students and their implementation should be scheduled according to face-to-face lecture schedules.